



PTO/SB/21 (08-03)  
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| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number     | 10/621,222     |
|   | Filing Date            | July 16, 2003  |
|   | First Named Inventor   | Svein T. Vaage |
|   | Art Unit               | 3663           |
|   | Examiner Name          |                |
| Total Number of Pages in This Submission  | Attorney Docket Number | PGS-02-16US    |

| ENCLOSURES (Check all that apply)  |   |   |
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| <b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>                            |   |   |
| Firm or Individual name  | E. Eugene Thigpen   |   |
| Signature  |   |   |
| Date   | October 22, 2003  |   |

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**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**In re Application of:**  
**Svein T. Vaage, et al.**

**Serial No. 10/621/222**

**Filed: July 16, 2003**

**Title: METHOD FOR SEISMIC  
EXPLORATION UTILIZING  
MOTION SENSOR AND  
PRESSURE SENSOR DATA**

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**Group Art Unit: 3663**

**Examiner: Unknown**

**Atty Docket No. PGS-02-16US**

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*E. Eugene Thigpen*  
E. Eugene Thigpen

Date: October 22, 2003

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR § 1.97(b)**

Sir:

The Applicant respectfully submits herewith an Information Disclosure Statement citing copies of references (A1-A4, C1-C2).

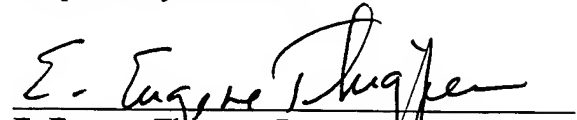
This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. § 1.16 to 1.21 be deemed

necessary for any reason the Commissioner is authorized to deduct the fees from Petroleum Geo-Services, Inc.'s Deposit Account 50-2223.

Respectfully submitted

Date: October 22, 2003

  
E. Eugene Thigpen, Reg. No. 27,400

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Houston, TX 77242-2805  
Direct Dial Telephone: 281-679-2288

Substitute for form 1449A/PTO

Atty. Docket No.

PGS-02-16US

Serial No. 10/621,222

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Page 1 of 2

Applicants

Svein Vaage, *et al.*

Examiner Name

Unknown

Filing Date:

July 16, 2003

Group Art: 3663

U.S. Patent Documents

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Foreign Patent Documents

See Page 2

Other Art

See Page 2

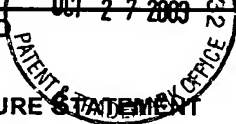
**U.S. Patent Documents**

| Exam.<br>Init. | Cite<br>No. | Document<br>Number | Publication<br>Date | Name of Patentee or<br>Applicant of Cited<br>Document | Pages, Columns,<br>Lines, Where<br>Relevant Passages<br>or Relevant<br>Figures Appear |
|----------------|-------------|--------------------|---------------------|---|---|
|                | A1          | 4,486,865          | 12/04/1984          | William H. Ruehle                                     |   |
|                | A2          | 4,935,903          | 06/19/1990          | Joe I. Sanders, <i>et al.</i>                         |   |
|                | A3          | 4,979,150          | 12/18/1990          | Frederick J. Barr                                     |   |
|                | A4          | 5,621,700          | 04/15/1997          | Nicolae Moldoveanu                                    |   |
|                | A5          |                    |                     |   |   |
|                | A6          |                    |                     |   |   |
|                | A7          |                    |                     |   |   |
|                | A8          |                    |                     |   |   |
|                | A9          |                    |                     |   |   |
|                | A10         |                    |                     |   |   |
|                | A11         |                    |                     |   |   |
|                | A12         |                    |                     |   |   |
|                | A13         |                    |                     |   |   |
|                | A14         |                    |                     |   |   |
|                | A15         |                    |                     |   |   |
|                | A16         |                    |                     |   |   |
|                | A17         |                    |                     |   |   |
|                | A18         |                    |                     |   |   |
|                | A19         |                    |                     |   |   |
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|  |  |  |                              |
|--|--|--|------------------------------|
| Substitute form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br><br>Page 2 of 2 |  | Atty. Docket No.<br><b>PGS-02-16US</b> | Serial No. <b>10/621,222</b> |
| Applicants<br><b>Svein Vaag , et al.</b>   |  | Examiner Name<br>Unknown               |                              |
| Filing Date:<br><b>July 16, 2003</b>   |  | Group Art: <b>3663</b>                 |                              |

|  |   |                                |
|--|---|--------------------------------|
| U.S. Patent Documents<br><i>See Page 1</i> | Foreign Patent Documents<br><i>See Page 2</i> | Other Art<br><i>See Page 2</i> |
|--|---|--------------------------------|

### Foreign Patent Documents

| Exam.<br>Init. | Ref.<br>Des. | Document<br>Number | Date | Country | Class | Sub<br>Class | Translation<br>Yes/No |
|----------------|--------------|--------------------|------|---------|-------|--------------|-----------------------|
|                | B1           |                    |      |         |       |              |                       |
|                | B2           |                    |      |         |       |              |                       |
|                | B3           |                    |      |         |       |              |                       |
|                | B4           |                    |      |         |       |              |                       |
|                | B5           |                    |      |         |       |              |                       |

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam.<br>Init. | Ref.<br>Des. | Citation   |
|----------------|--------------|--|
|                | C1           | J.T. FOKKEMA, P.M. VAN DEN BERG, "Seismic Applications of Acoustic Reciprocity", ISBN0-444 890444, Elsevier Science Publishers, 1993, Chapter 10.1, pages 199-210, Amsterdam, The Netherlands        |
|                | C2           | J.W.A.V. SCHOOLMEESTERS, "Three-Dimensional Processing of Marine Seismic Data by Spectral Decomposition", ISBN 90-9014856-6, Ph.D. Thesis, Delft University of Technology, 2001, 4.2.2., pages 63-66 |
|                | C3           |  |
|                | C4           |  |
|                | C5           |  |
|                | C6           |  |
|                | C7           |  |
|                | C8           |  |
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